

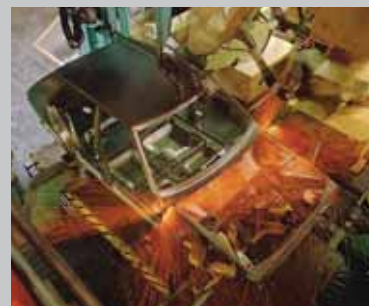


30.5mm pilot DEVICES

NEMA Type 1, 3, 3R, 4, 4X, 12, 13

Automotive Standards Compliant

Water Tight – Oil Tight – Dust Tight



SIEMENS

Siemens 30.5mm Pilot Device Resource Center

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Siemens 30.5mm Pilot Devices

General Information

Features

- Octagonal Mounting Nuts
- Meets Type 1, 3, 3R, 4, 4X, 12, 13 and Automotive Standards
- Heavy Duty Rated NEMA A600/P600 Contacts
- Positive Indexing Selectors
- Bifurcated Movable Contacts
- Attractive Chrome Plating or Black Matte Finish
- Boots Not Required for Type 4
- UL Listed File # E22655
- CSA Certified File # LR6535
- Touchsafe Terminals

Application

Siemens pilot devices and accessories are designed to provide long, trouble free service in the most demanding of industrial applications. These controls are water, oil, and dust tight and meet NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 specifications.

Rugged

Industrial control operators are of durable one piece castings. Heavy duty plastic buttons resist oils and corrosion. Silver contacts carry heavy duty ratings while standard gold flashing on contacts allows for use in low current applications.

Flexible

Accessories modify standard push buttons, selector switches, and pilot lights. Building block construction of contact blocks makes it possible for many circuitry combinations.

Industrial Appearance

Pilot controls add luster to panels. Chrome plating covers exposed metal parts. The black matte finish of Black-Max pilot device operators allows for an alternative look to finished panels while still offering corrosion resistance and superior ingress protection.



Push Button Operators

The push button operator base consists of a durable, one piece casting. The base is equipped with a heavy duty actuator with a stainless steel spring, a neoprene actuator sealing ring to prevent water, oil, and dust from penetrating to the contact blocks, a neoprene gasket to seal operator mounting hole, and a chrome plated locknut.

Mushroom Head Push Button Operators

Operator base construction is identical to the push button operator base. The actuator is molded of high impact material for either a 1 5/8 inch or 2 1/2 inch diameter molded head.

Contact Blocks

Contact blocks have double-break bifurcated silver contacts, with gold flashing as standard, which improves contact fidelity. Contact blocks are heavy duty rated NEMA A600/P600 and suitable for applications down to 5V/1mA solid state outputs. Molded bodies and pushers resist arcing and tracking. All units have stainless steel springs that resist corrosion and provide strong contact pressure. Captive mounting screws speed panel assembly.

Push-pull Operators

Push-pull operators combine two or three functions in one unit. The maintained operator has two positions, typically pull to start, push to stop. The momentary operator with three positions provides spring return from both pull and push positions. These units are also available illuminated.

Two-button Maintained Operator

Two-button maintained operator push buttons consist of two push buttons and a latching assembly. When actuated the button remains depressed and is freed only by the release operator to which it is linked. The button assembly adjusts for mounting from a 1 13/16 inch to a 2 5/8 inch center.



Transformer Type Pilot Lights

Transformer type pilot lights are available with a 120, 240, 277, 480, or 600 Volt primary (50/60 Hertz) and a separate secondary winding which supplies reduced voltage to a miniature bayonet base 6 Volt lamp. These units are suitable for applications where vibration is present and long bulb life is desirable.

Full Voltage Type Pilot Lights

Full voltage pilot lights are available for 6, 12, 24, 120, 277V, and 240 Volt AC and DC applications. The 240 volt pilot light is supplied with a 120 volt lamp and a voltage dropping resistor.

LED Type Pilot Lights

LEDs (light emitting diodes) can be used in pilot lights instead of incandescent bulbs because of their extremely long life, resistance to vibration, and ambient sensitivity.

Selector Operators

Selector operators have positive action indexing. Operators are available with either a short or long lever. The molded black lever is designed to accept a color insert. A white insert is provided as standard; however, eight alternative lever insert colors are available. Each operator is equipped with a cam to actuate plungers of contact blocks assembled behind the operator. Two, three, and four position operators are available with seven different cams.

Siemens 30.5mm Pilot Devices

Technical Specifications

Standards	UL Listed File # E22655	CSA Certified File # LR6535
Utilization	Category NEMA	A600/P600
Degree of Protection	52P-, 52S-, 52M- Operators	NEMA: 1, 3, 3R, 4, 4X, 12 and 13 IEC 529; IP10, IP11, IP14, IP52, IP54, and IP56
Rated Operational Current		
	NEMA A600 - 10 Continuous Amps	NEMA P600 - Rating Codes for DC Control Circuit Application
	Voltage AC	Thermal Continuous Test Current Amps
	Make Amps	Maximum Make or Break; Current / Amps
	Break Amps	
	120V	5.0
	240V	1.10
	480V	0.55
	600V	0.20
	Total VA	Maximum Make or Break
		Volt amperes at 300V or Less
		138
Contact Blocks	52BAK, -BAJ, -BAH, -BAU, -BJK 52BAR	600VAC Maximum, Heavy Duty 200VAC .25 Amp, 10 Watt Maximum 200VDC .50 Amp, 10 Watt Maximum
	Contact blocks are suitable for applications down to 5V/1MA low voltage applications as found in PLCs.	
		<i>52BAR are Class 1; Division 2 Compliant</i>
Pilot Light	Full Voltage	52PA4
	Resistor Type	52PA4
	Transformer Type	52PA4
		-B (6-8V), -C (12V), -D (24V), -E (120V) -N (240V) -G (120V), -H (240V), -T (277V), -J (480V), -K (600V)
		120V AC/DC Maximum 240V AC/DC Maximum 600V AC Maximum, 50/60 Hz
Push-to-test	Illuminated Push Button - Full Voltage	52PA6
	Illuminated Push Button - Resistor	52PA6
	Illuminated Push Button - Transformer	52PA6
		-B (6-8V), -D (24V) -M (120V), -N (240V) -G (120V), -H (240V), -J (480V), -K (600V)
		24V AC/DC Maximum 240V AC/DC Maximum 600VAC Maximum, 50/60 Hz
Push-pull	Illuminated Push Pull - Full Voltage	52PA2(3)
	Illuminated Push Pull - Transformer	52PA2(3)
		-D (24V) -G (120V), -H (240V), -J (480V), -K (600V)
		24V AC/DC Maximum 600VAC Maximum, 50/60 Hz
Illuminated Selector Switch	Full Voltage	52SA7
	Transformer	52SA7
		-AD,-BD,-CD -AG, (120V), -BG (120V), -CG (120V), -BH (240V), -CH (240V)
		24V AC/DC Maximum 240VAC Maximum, 50/60 Hz
Dielectric Strength		2200V for one minute
Mechanical Design Life Cycles		
Vibration	Frequency 5 - 60Hz.; Disp. .030 inches, sweep 5 minutes for a duration of 30 minutes on each axis. Not to exceed 5.5 G's for maximum of 1 minute.	
Push Buttons	Momentary, Non-illuminated	5,000,000 Operating Cycles
	Momentary, Illuminated	2,000,000 Operating Cycles
	Push-pull	2,000,000 Operating Cycles
Selector Switches	Non-illuminated	2,000,000 Operating Cycles
	Illuminated, Key-operated	2,000,000 Operating Cycles
Contact Operation	Standard Contact Block Logic Reed	
Wire Gauge	#18-12 AWG	
Terminal Screw Torque	2-10 lb-in / 20 lb-in max; 8 lb-in recommended	
Locknut Torque	15 ft. lbs. max	
Temperature Range	Operating	31F to +158F (-35C to +70C)
	Storage	40F to +185F (-40C to +85C)






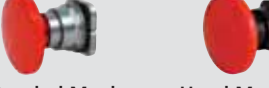





All parts are designed and manufactured of corrosion resistant material or are plated or painted as corrosion protection. All contact block contacts are gold flashed as a standard offering. Internal return spring mechanisms of operators and contact blocks of stainless steel. RoHS Compliant.

Declaration of Conformity — The products listed below, to which this declaration relates, are in conformity with the following standards, following the provisions of the Low Voltage Directive (LVD) (73/23/EEC), and the Electromagnetic Compatibility Directive (89/336/EEC.)

Products: Contact Blocks: Cat Nos. 52BAE, 52BAH, 52BAJ, 52BAK, 52BAR, 52BAU and 52BJK, with suffixes. Pilot Lights: Cat Nos 52P, with suffixes. Operators: Cat Nos 52S or 52P, with suffixes.

Applicable Standards: EN 60947-5-1 Low-Voltage Switchgear and controlgear. Enclosed devices meet the requirements of environmental ratings of IP10, IP11, IP14, IP52, IP54, and IP56. Open devices, when mounted as instructed, in environmental type IP10, IP11, IP14, IP52, IP54 or IP56 enclosures, maintain the environmental requirements for those enclosure types.

Siemens Push Buttons

Complete Units	Components Operators Only	Contact Blocks	Operator Specific Accessories
 <p>Flush Push Buttons – Non-illuminated</p> <ul style="list-style-type: none"> ● 52P□8□1□ ● 52P□8□2□ ● 52P□8□3□ ● 52P□8□4□ ● 52P□8□5□ ● 52P□8□6□ ● 52P□8□8□ <p>Chrome A AⓄ K 1 NO Black Max X FⓂ J 1 NC</p> <p>A 1 NO + 1 NC F 2 NO G 2 NC B 2 NO + 2 NC</p> <p>① Flush ② Extended</p>	 <p>Flush Push Buttons – Non-illuminated</p> <ul style="list-style-type: none"> ● 52P□8□1 ● 52P□8□2 ● 52P□8□3 ● 52P□8□4 ● 52P□8□5 ● 52P□8□6 ● 52P□8□8 <p>Kit All Colors 52P□8□N</p> <p>Chrome A A Flush Black Max X F Extended</p>	 <p>Contact Blocks For All Operators</p> <p>52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Break 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ②</p> <p>① 52BAR ② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	 <p>Buttons for Non-illuminated Push Buttons</p> <ul style="list-style-type: none"> ● 52RA1□1 ● 52RA1□2 ● 52RA1□3 ● 52RA1□4 ● 52RA1□5 ● 52RA1□6 ● 52RA1□8 <p>Kit All Colors 52RA1□N</p> <p>A Flush F Extended</p> <p>① Flush ② Extended</p>
 <p>Extended Mushroom Head Momentary Push Buttons – Non-illuminated</p> <ul style="list-style-type: none"> ● 52P□9□1□ ● 52P□9□2□ ● 52P□9□3□ ● 52P□9□4□ ● 52P□9□5□ ● 52P□9□6□ ● 52P□9□8□ <p>Chrome B DⓄ K 1 NO Black Max X EⓂ J 1 NC</p> <p>A 1 NO + 1 NC F 2 NO G 2 NC B 2 NO + 2 NC</p> <p>① 1½" Head ② 2½" Head</p>	 <p>Extended Mushroom Head Momentary Push Buttons – Non-illuminated</p> <ul style="list-style-type: none"> ● 52P□9□1 ● 52P□9□2 ● 52P□9□3 ● 52P□9□4 ● 52P□9□5 ● 52P□9□6 ● 52P□9□8 <p>Kit All Colors 52P□9□N</p> <p>Chrome B D 1½" Head Black Max X E 2½" Head</p>	 <p>Contact Blocks For All Operators</p> <p>52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Break 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ②</p> <p>① 52BAR ② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	 <p>Extended Mushroom Head Momentary Buttons for Non-illuminated Push Buttons</p> <ul style="list-style-type: none"> ● 52RB3□1 ● 52RB3□2 ● 52RB3□3 ● 52RB3□4 ● 52RB3□5 ● 52RB3□6 ● 52RB3□8 <p>Kit All Colors 52RB3□N</p> <p>D 1½" Head E 2½" Head</p>
 <p>Illuminated Push Buttons/ Push to Test</p> <ul style="list-style-type: none"> ● 52P□6□2A 1 NO + 1 NC ● 52P□6□3A 1 NO + 1 NC ● 52P□6□5A 1 NO + 1 NC ● 52P□6□9A 1 NO + 1 NC ● 52P□6□AA 1 NO + 1 NC ● 52P□6□BA 1 NO + 1 NC ● 52P□6□NA 1 NO + 1 NC ① <p>AMB CL WH</p> <p>Less Lens</p> <p>Chrome A B 6-8V Full Voltage Chrome LED E D 24V Full Voltage Black Max XⓂ G 120V Transformer Type ③ H 240V Transformer Type ③ J 480V Transformer Type ③ K 600V Transformer Type ③ M 120V Resistor Type with 24V lamp N 240V Resistor Type with 24V lamp</p> <p>① Not available for LED. ② For Complete item ID for Black Max LED, add "Y" to the end of assembled number. Example: 52PX4N2Y. ③ With 6V lamp.</p>		 <p>Contact Blocks For All Operators</p> <p>52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Break 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ②</p> <p>① 52BAR ② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	 <p>Button Lens For Push to Test Illuminated Push buttons</p> <ul style="list-style-type: none"> ● 52RA5P2 ● 52RA5P3 ● 52RA5P5 ● 52RA5P9 ● 52RA5PA ● 52RA5PB <p>AMB CL WH</p>

A Push Button and Mushroom Head Momentary Non-illuminated

Cat. No. 52PA8, 52PX8, 52PB9,* 52PX9*

Installation Instructions

Units are assembled as shown.

1. Assemble oil rings.
2. Mount unit on panel as shown in illustration.
3. Position trim ring or legend plate (trim ring is discarded when legend plate is used). ①
4. Position index locking ring on unit as shown in illustration.
5. Assemble and tighten lock nut.
6. Position and press on color cap.

B Push To Test Pilot Light Illuminated Push Button

Cat. No. 52PA6, 52PE6, 52PX6

Installation Instruction

1. Remove lock nut from operator. Mount operator base panel as shown and tighten to 15 ft. lbs. ②
2. Place lens gasket around lamp, sealing it firmly in a groove provided.
3. Screw lens into threaded socket of operator base and tighten by hand.

Installing Guard Accessory (52AAGL)

1. To install guard accessory, replace operator lock nut with lock nut from guard accessory kit.
2. Screw guard on the operator.

NOTE: The guard is designed to protect the push button from accidental operation.

- ① Second oil ring and trim ring not used on BlackMax 4X devices.
- ② Spacers and trim ring not used on black 4X devices.

Notes for BlackMax 4X devices:

- The trim ring is not needed or supplied.
- Only use the index locking ring when using a metal nameplate. Discard when not using a name plate or when using a plastic nameplate.
- Use locknut wrench, **52MAWB**.

IMPORTANT

THESE INSTRUCTIONS DO NOT PURPORT TO COVER ALL DETAILS OR VARIATIONS IN EQUIPMENT, NOR TO PROVIDE FOR EVERY POSSIBLE CONTINGENCY TO BE MET IN CONNECTION WITH INSTALLATION, OPERATION OR MAINTENANCE. SHOULD FURTHER INFORMATION BE DESIRED OR SHOULD PARTICULAR PROBLEMS ARISE WHICH ARE NOT COVERED SUFFICIENTLY FOR THE PURCHASER'S PURPOSES, THE MATTER SHOULD BE REFERRED TO THE LOCAL SIEMENS SALES OFFICE.

THE CONTENTS OF THIS INSTRUCTION MANUAL SHALL NOT BECOME PART OF OR MODIFY ANY PRIOR OR EXISTING AGREEMENT COMMITMENT OR RELATIONSHIP. THE SALES CONTRACT CONTAINS THE ENTIRE OBLIGATION OF SIEMENS. THE WARRANTY CONTAINED IN THE CONTRACT BETWEEN THE PARTIES IS THE SOLE WARRANTY OF SIEMENS. ANY STATEMENTS CONTAINED HEREIN DO NOT CREATE NEW WARRANTIES OR MODIFY THE EXISTING WARRANTY.

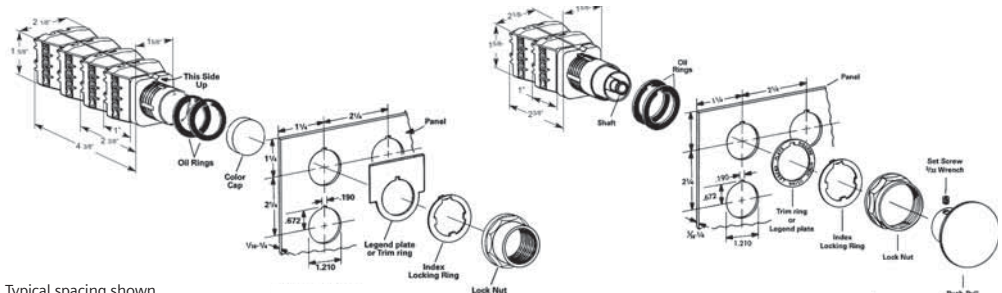


WARNING

Hazardous voltage.
Can cause death, serious personal injury, or property damage.

To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.

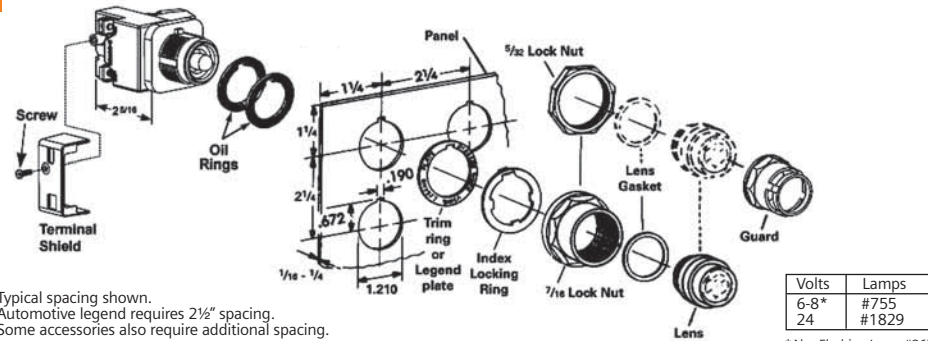
A



Typical spacing shown.
Automotive legend requires 2 1/2" spacing.
Some accessories also require additional spacing.

*Mushroom Head Momentary Operator Mounting.
For Operator Dimensional Drawings See Page 1-6.

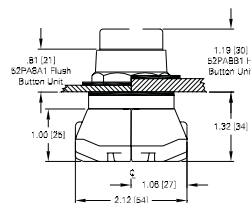
B



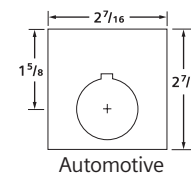
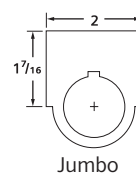
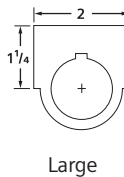
Typical spacing shown.
Automotive legend requires 2 1/2" spacing.
Some accessories also require additional spacing.

*Also Flashing Lamp #267

A Non-illuminated momentary push button flush extended styles with one contact block



Legend Plates

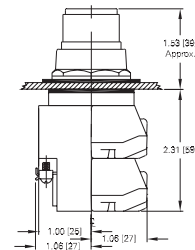


Large

Jumbo

Automotive

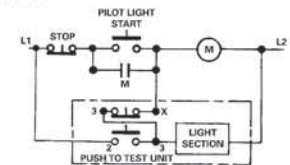
B Push to test illuminated push button



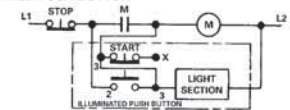
B Wiring Instructions

(Typical Motor Controller Application)

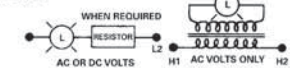
PUSH TO TEST





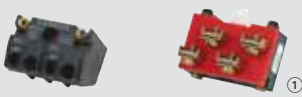



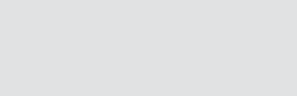


ILLUMINATED PUSH BUTTON



LIGHT SECTION



Siemens Push-Pull Operators

Complete Units	Components Operators Only	Contact Blocks	Operator Specific Accessories
 <p>2-Position Push-Pull; Maintained 1½" (41.3mm) Metal Mushroom Head Non-illuminated</p> <p>MTL ● 52PA2A2A 1 NO + 1 NC MTL ● 52PA2A3A 1 NO + 1 NC MTL ● 52PA2ACA 1 NO + 1 NC</p> <p>1½" (41.3mm) Plastic Mushroom Head</p> <p>● 52P□2W1A 1 NO + 1 NC ● 52P□2W2A 1 NO + 1 NC ● 52P□2W3A 1 NO + 1 NC</p> <p>Chrome A Black Max X</p> <p>2¼" (57.2mm) Plastic Mushroom Head</p> <p>● 52P□2V1A 1 NO + 1 NC ● 52P□2V2A 1 NO + 1 NC ● 52P□2V3A 1 NO + 1 NC</p> <p>Chrome A Black Max X</p>	 <p>2-Position Push-Pull; Maintained 1½" (41.3mm) Metal Mushroom Head Non-illuminated</p> <p>MTL ● 52PA2A2 MTL ● 52PA2A3 MTL ● 52PA2AC</p> <p>1½" (41.3mm) Plastic Mushroom Head Non-illuminated</p> <p>● 52P□2W1 ● 52P□2W2 ● 52P□2W3</p> <p>Chrome A Black Max X</p> <p>2¼" (57.2mm) Plastic Mushroom Head</p> <p>● 52P□2V1 ● 52P□2V2 ● 52P□2V3</p> <p>Chrome A Black Max X</p>	 <p>Contact Blocks For All Operators</p> <p>52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Break 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ②</p> <p>① 52BAR ② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	 <p>1½" (41.3mm) Metal Mushroom Head For Non-illuminated Push Buttons/Push Pull</p> <p>● 52RB3FC ● 52RB3F2 ● 52RB3F3</p>  <p>1½" (41.3mm) Plastic Mushroom Head For Non-illuminated Push Buttons/Push Pull</p> <p>● 52RB3D1 ● 52RB3D2 ● 52RB3D3 ● 52RB3D4 ● 52RB3D5 ● 52RB3D6 ● 52RB3D8 Kit All Colors 52RB3DN</p>
 <p>3-Position Push-Pull; Momentary 1½" (41.3mm) Metal Mushroom Head Non-illuminated</p> <p>MTL ● 52PA3A2U 1 NO + 1 NC MTL ● 52PA3A3U 1 NO + 1 NC MTL ● 52PA3ACU 1 NO + 1 NC</p> <p>1½" (41.3mm) Plastic Mushroom Head</p> <p>● 52P□3W1U 1 NO + 1 NC ● 52P□3W2U 1 NO + 1 NC ● 52P□3W3U 1 NO + 1 NC</p> <p>Chrome A Black Max X</p> <p>2¼" (57.2mm) Plastic Mushroom Head</p> <p>● 52P□3V1U 1 NO + 1 NC ● 52P□3V2U 1 NO + 1 NC ● 52P□3V3U 1 NO + 1 NC</p> <p>Chrome A Black Max X</p>	 <p>3-Position Push-Pull; Momentary 1½" (41.3mm) Metal Mushroom Head Non-illuminated</p> <p>MTL ● 52PA3A2U MTL ● 52PA3A3U MTL ● 52PA3ACU</p> <p>1½" (41.3mm) Plastic Mushroom Head</p> <p>● 52P□3W1U ● 52P□3W2U ● 52P□3W3U</p> <p>Chrome A Black Max X</p> <p>2¼" (57.2mm) Plastic Mushroom Head</p> <p>● 52P□3V1U ● 52P□3V2U ● 52P□3V3U</p> <p>Chrome A Black Max X</p>	 <p>Contact Blocks For All Operators</p> <p>52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Break 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ②</p> <p>① 52BAR ② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	 <p>2½" (64mm) Plastic Mushroom Head For Non-illuminated Push Buttons/Push Pull</p> <p>● 52RB3E1 ● 52RB3E2 ● 52RB3E3 ● 52RB3E4 ● 52RB3E5 ● 52RB3E6 ● 52RB3F8 Kit All Colors 52RB3EN</p>

Push-Pull and Mushroom Head Momentary Operators Non-illuminated

Momentary and Maintained

Cat. No. 52PA2, 52PA3, 52PX2, 52PX3, 52PB9, ① 52PX9 ①

Installation Instructions

1. Be sure the set screw is loosened. Shaft must be in the pull position.
2. Remove push-pull head. (Pull)
3. Remove locknut, locking ring and trim ring.
4. Mount unit in panel as shown. ②
5. Reassemble head, and secure with set screw.

Contact Operation

Maintained Push-Pull

1. For normally open contacts, use 52BAK contact block
2. For normally closed contacts, use 52BAJ contact block

Momentary Push-Pull (Factory assembled)

1. For normally open contacts, the B52BAJ (normally closed) contact block is used. When mounted on this operator, the contact block becomes normally open.
2. For normally closed contacts, the special 52BAU contact block is used. This contact block must be mounted last.

① For devices, see Page 1-3.

② Trim ring not used on black 4X devices.

Notes for BlackMax 4X devices:

- The trim ring is not needed or supplied.
- Only use the index locking ring when using a metal nameplate. Discard when not using a name plate or when using a plastic nameplate.
- Use locknut wrench, **52MAWB**.

IMPORTANT

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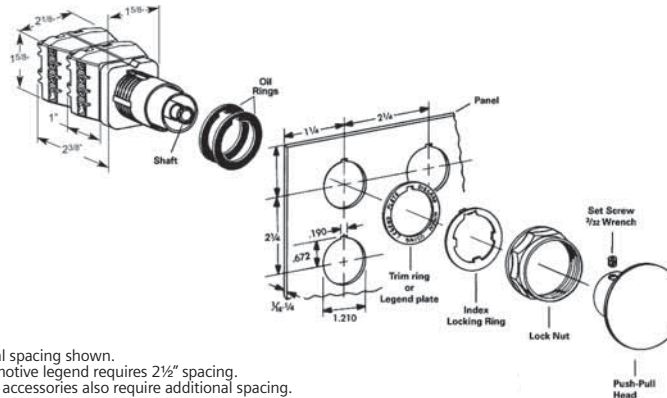
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WARNING

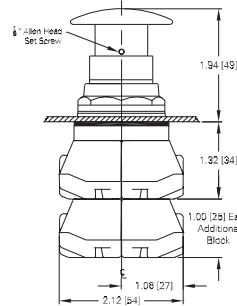
Hazardous voltage.
Can cause death, serious personal injury, or property damage.

To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.

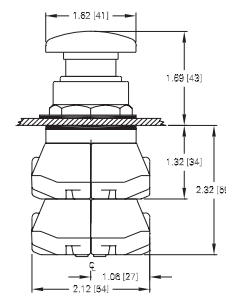


Typical spacing shown.
Automotive legend requires 2 1/2" spacing.
Some accessories also require additional spacing.

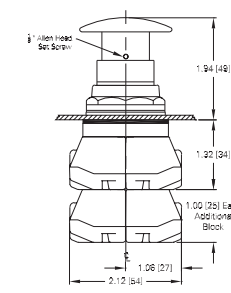
2 Position maintained non-illuminated



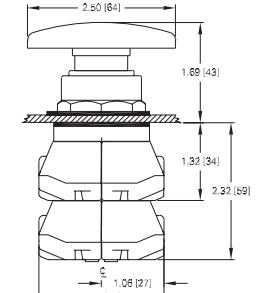
Small mushroom head momentary push button



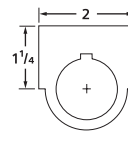
3 position maintained non-illuminated



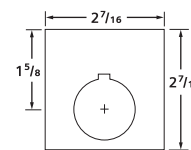
Large mushroom head momentary push button



Legend Plates

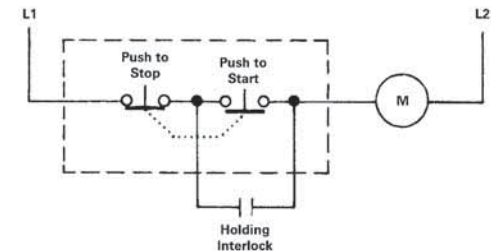


Large

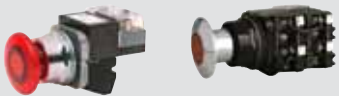






Automotive

3 Wire Control Position Momentary Operator



Siemens Push-Pull Operators

Complete Units	Components Operators Only	Contact Blocks	Operator Specific Accessories
 <p>2-Position Push-Pull; Maintained Illuminated</p> <p>Less Head 52P□2□NA 1 NO + 1 NC Chrome Mushroom Head</p> <ul style="list-style-type: none"> ● 52P□2□2A 1 NO + 1 NC ● 52P□2□3A 1 NO + 1 NC <p>AMB ● 52P□2□9A 1 NO + 1 NC</p> <p>Chrome A D 24V Full Voltage Chrome LED E G 120V Transformer Black Max X^① H 240V Transformer J 480V Transformer K 600V Transformer</p> <p>Plastic Mushroom Head</p> <ul style="list-style-type: none"> ● 52P□2□RA 1 NO + 1 NC ● 52P□2□SA 1 NO + 1 NC <p>AMB ● 52P□2□TA 1 NO + 1 NC</p> <p>Chrome A D 24V Full Voltage Chrome LED E G 120V Transformer Black Max X^①</p> <p>^① For Complete item ID for Black Max LED, add "Y" to the end of assembled number. Example: 52PX2D2AY.</p>		 <p>Contact Blocks For All Operators</p> <ul style="list-style-type: none"> 52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Break 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ^② <p>^① 52BAR ^② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	 <p>Mushroom Head For Illuminated Push Buttons Chrome 1³/₄" (44.4mm)</p> <ul style="list-style-type: none"> ● 52RB3H2 ● 52RB3H3 <p>AMB ● 52RB3H9</p> <p>Plastic 1³/₄" (44.4mm)</p> <ul style="list-style-type: none"> ● 52RB3JR ● 52RB3JG <p>AMB ● 52RB3JA</p>
 <p>3-Position Push-Pull; Momentary Illuminated</p> <p>Less Head 52P□3□NU 1 NO + 1 NC Chrome Mushroom Head</p> <ul style="list-style-type: none"> ● 52P□3□2U 1 NO + 1 NC ● 52P□3□3U 1 NO + 1 NC <p>AMB ● 52P□3□9U 1 NO + 1 NC</p> <p>Chrome A D 24V Full Voltage Chrome LED E G 120V Transformer Black Max X^① H 240V Transformer J 480V Transformer K 600V Transformer</p> <p>Plastic Mushroom Head</p> <ul style="list-style-type: none"> ● 52P□3□RU 1 NO + 1 NC ● 52P□3□SU 1 NO + 1 NC <p>AMB ● 52P□3□TU 1 NO + 1 NC</p> <p>Chrome A D 24V Full Voltage Chrome LED E G 120V Transformer Black Max X^①</p> <p>^① For Complete item ID for Black Max LED, add "Y" to the end of assembled number. Example: 52PX3D2UY.</p>		 <p>Contact Blocks For All Operators</p> <ul style="list-style-type: none"> 52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Break 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ^② <p>^① 52BAR ^② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	

Push-Pull Operator — Illuminated

Momentary and Maintained

Cat. No. 52PA2, 52PA3, 52PX2, 52PX3, 52PE2, 52PE3

Installation Instructions

1. Remove push-pull head (turn counter clockwise to loosen)
2. Remove locknut, lock ring, and trim ring.
3. Mount unit in panel as shown. Secure locknut to 15 ft.-lbs.
4. Replace push-pull head. Make sure gasket is in place.

When adding contact blocks, observe the following:

Maintained Push-Pull

1. For normally open contacts, use 52BAK contact block
2. For normally closed contacts, use 52BAJ contact block

Momentary Push-Pull

1. For normally open contacts, the 52BAJ (normally closed) contact block is used. When mounted on this operator, the contact block becomes normally open.
2. For normally closed contacts, the special 52BAU contact block is used. This contact block must be mounted last.

Notes for BlackMax 4X devices:

- The trim ring is not needed or supplied.
- Only use the index locking ring when using a metal nameplate. Discard when not using a name plate or when using a plastic nameplate.
- Use locknut wrench, **52MAWB**.

IMPORTANT

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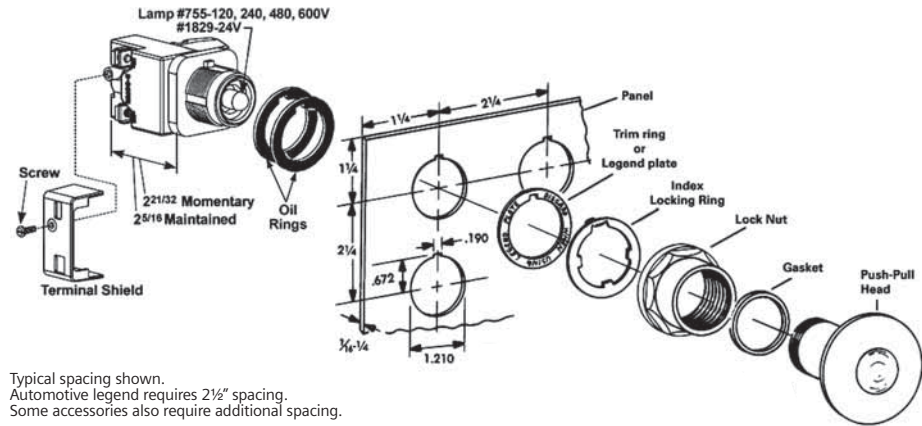
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WARNING

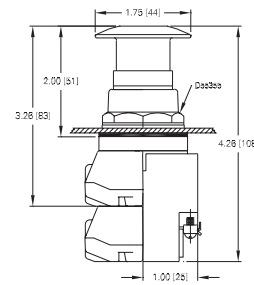
Hazardous voltage.
Can cause death, serious personal injury, or property damage.

To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.

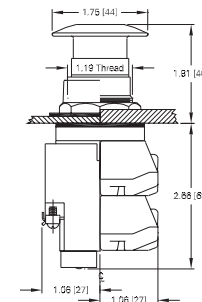


Typical spacing shown.
Automotive legend requires 2 1/2" spacing.
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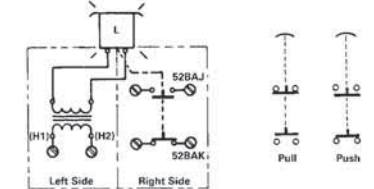
2 position maintained push-pull illuminated



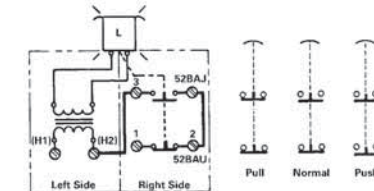
3 position maintained push-pull illuminated



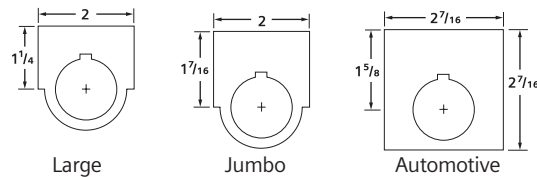
Wiring Contact Position Maintained 2 Position







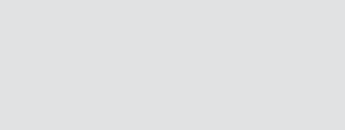






Momentary Contact 3 Position



Legend Plates



Siemens Selector Switches — 2-Position

Complete Units	Components Operators Only	Contact Blocks	Operator Specific Accessories																																																																												
 <p>2-Position Selector Switch Non-illuminated Maintained "A" Cam</p> <p>● 52S□2AAB□1</p> <table border="1"> <tr><td>Chrome Short Lever</td><td>A</td><td>K 1 NO</td></tr> <tr><td>Chrome Long Lever</td><td>B</td><td>J 1 NC</td></tr> <tr><td>Black Max Short Lever</td><td>X</td><td>A 1 NO + 1 NC</td></tr> <tr><td>Black Max Long Lever</td><td>W</td><td></td></tr> </table> <p>Spring Return From Right "A" Cam</p> <p>● 52S□2ACB□1</p> <table border="1"> <tr><td>Chrome Short Lever</td><td>A</td><td>K 1 NO</td></tr> <tr><td>Chrome Long Lever</td><td>B</td><td>J 1 NC</td></tr> <tr><td>Black Max Short Lever</td><td>X</td><td>A 1 NO + 1 NC</td></tr> <tr><td>Black Max Long Lever</td><td>W</td><td></td></tr> </table>	Chrome Short Lever	A	K 1 NO	Chrome Long Lever	B	J 1 NC	Black Max Short Lever	X	A 1 NO + 1 NC	Black Max Long Lever	W		Chrome Short Lever	A	K 1 NO	Chrome Long Lever	B	J 1 NC	Black Max Short Lever	X	A 1 NO + 1 NC	Black Max Long Lever	W		 <p>2-Position Selector Switch Non-illuminated Maintained "A" Cam</p> <p>● 52S□2AAB</p> <table border="1"> <tr><td>Chrome Short Lever</td><td>A</td><td></td></tr> <tr><td>Chrome Long Lever</td><td>B</td><td></td></tr> <tr><td>Black Max Short Lever</td><td>X</td><td></td></tr> <tr><td>Black Max Long Lever</td><td>W</td><td></td></tr> </table> <p>Spring Return From Right "A" Cam</p> <p>● 52S□2ACB</p> <table border="1"> <tr><td>Chrome Short Lever</td><td>A</td><td></td></tr> <tr><td>Chrome Long Lever</td><td>B</td><td></td></tr> <tr><td>Black Max Short Lever</td><td>X</td><td></td></tr> <tr><td>Black Max Long Lever</td><td>W</td><td></td></tr> </table>	Chrome Short Lever	A		Chrome Long Lever	B		Black Max Short Lever	X		Black Max Long Lever	W		Chrome Short Lever	A		Chrome Long Lever	B		Black Max Short Lever	X		Black Max Long Lever	W		 <p>Contact Blocks For All Operators</p> <table border="1"> <tr><td>52BAK</td><td>1 NO</td></tr> <tr><td>52BAJ</td><td>1 NC</td></tr> <tr><td>52BJK</td><td>1 NO + 1 NC</td></tr> <tr><td>52BAH</td><td>1 NO Early Make</td></tr> <tr><td>52BAE</td><td>1 NC Late Break</td></tr> <tr><td>52BAU</td><td>1 NC Extra Late Break</td></tr> <tr><td>52BAR</td><td>1 NO + 1 NC ②</td></tr> </table> <p>① 52BAR ② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	52BAK	1 NO	52BAJ	1 NC	52BJK	1 NO + 1 NC	52BAH	1 NO Early Make	52BAE	1 NC Late Break	52BAU	1 NC Extra Late Break	52BAR	1 NO + 1 NC ②	 <p>Lever Inserts For Selector Switches</p> <table border="1"> <tr><td>●</td><td>52RA2□2</td></tr> <tr><td>●</td><td>52RA2□3</td></tr> <tr><td>●</td><td>52RA2□4</td></tr> <tr><td>●</td><td>52RA2□5</td></tr> <tr><td>●</td><td>52RA2□6</td></tr> <tr><td>●</td><td>52RA2□8</td></tr> <tr><td>WHT</td><td>52RA2□B</td></tr> </table> <p>A Short Lever B Long Lever</p>	●	52RA2□2	●	52RA2□3	●	52RA2□4	●	52RA2□5	●	52RA2□6	●	52RA2□8	WHT	52RA2□B
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A Selector Operators — Non-illuminated

Cat. No. 52SA2, 52SB2, 52SX2, 52SW2 and 52SC6

For Contact and Cam Selection for Non-Illuminated Selector and Key Operators, see Page 1-20

B Selector Operators — Illuminated

Cat. No. 52SA7

For Contact and Cam Selection for Illuminated Selector Operators, see Page 1-20

Installation Instructions

Units are assembled as shown.

1. Position and press in color insert if required.
2. Assemble oil rings.
3. Mount unit on panel as shown in the illustration.
4. Position trim ring or legend plate (trim ring is discarded when legend plate is used).^①
5. Position index locking ring on unit as shown in illustration.^②
6. Assemble and tighten lock nut to 15 ft. lbs.

① Trim ring not used on black 4X devices.

② Locking ring not needed with plastic legend plates.

Notes for BlackMax 4X devices:

- The trim ring is not needed or supplied.
- Only use the index locking ring when using a metal nameplate. Discard when not using a name plate or when using a plastic nameplate.
- Use locknut wrench, **52MAWB**.

IMPORTANT

THESE INSTRUCTIONS DO NOT PURPORT TO COVER ALL DETAILS OR VARIATIONS IN EQUIPMENT, NOR TO PROVIDE FOR EVERY POSSIBLE CONTINGENCY TO BE MET IN CONNECTION WITH INSTALLATION, OPERATION OR MAINTENANCE. SHOULD FURTHER INFORMATION BE DESIRED OR SHOULD PARTICULAR PROBLEMS ARISE WHICH ARE NOT COVERED SUFFICIENTLY FOR THE PURCHASER'S PURPOSES, THE MATTER SHOULD BE REFERRED TO THE LOCAL SIEMENS SALES OFFICE.

THE CONTENTS OF THIS INSTRUCTION MANUAL SHALL NOT BECOME PART OF OR MODIFY ANY PRIOR OR EXISTING AGREEMENT COMMITMENT OR RELATIONSHIP. THE SALES CONTRACT CONTAINS THE ENTIRE OBLIGATION OF SIEMENS. THE WARRANTY CONTAINED IN THE CONTRACT BETWEEN THE PARTIES IS THE SOLE WARRANTY OF SIEMENS. ANY STATEMENTS CONTAINED HEREIN DO NOT CREATE NEW WARRANTIES OR MODIFY THE EXISTING WARRANTY.

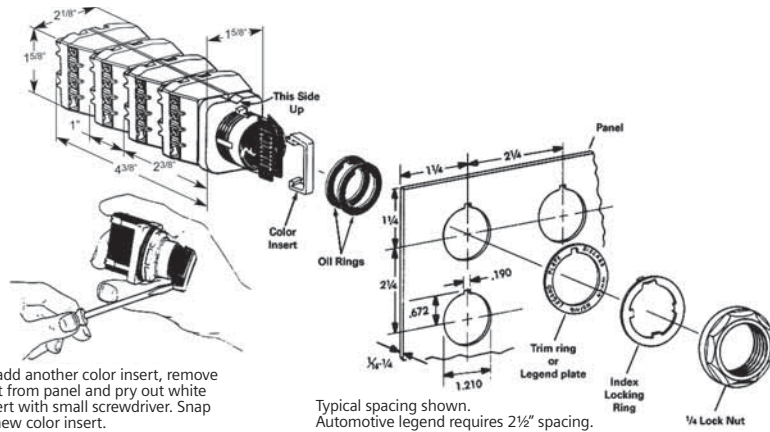


⚠ WARNING

Hazardous voltage.
Can cause death, serious personal injury, or property damage.

To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.

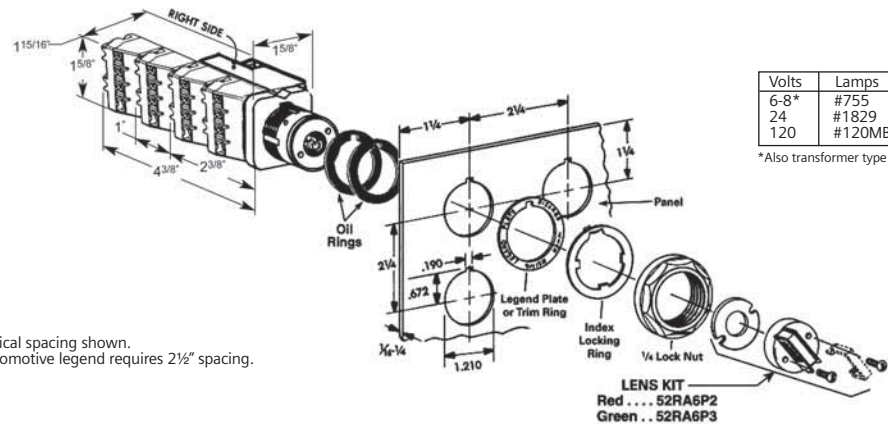
A Selector Operators — Non-illuminated



To add another color insert, remove unit from panel and pry out white insert with small screwdriver. Snap in new color insert.

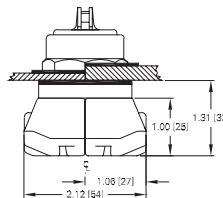
Typical spacing shown.
Automotive legend requires 2 1/2" spacing.

B Selector Operators — Illuminated

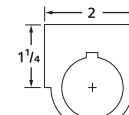


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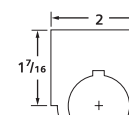
Selector switches and keyed selector switches illuminated and non-illuminated



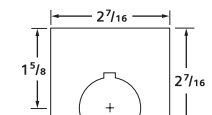
Legend Plates



Large






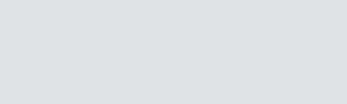





Jumbo



Automotive

Siemens Selector Switches — 3-Position

Complete Units	Components Operators Only	Contact Blocks	Operator Specific Accessories																																																																																																																																																																																																																																			
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 <p>3-Position Selector Switch without Lens Illuminated Maintained</p> <p>● 52SA7□ □N</p> <table border="0"> <tr><td>B ①</td><td>D</td><td>24V Full Voltage</td></tr> <tr><td>C ①</td><td>G</td><td>120V Full Voltage Transformer</td></tr> <tr><td>H</td><td></td><td>240V Transformer</td></tr> </table> <p>① Cam code</p>	B ①	D	24V Full Voltage	C ①	G	120V Full Voltage Transformer	H		240V Transformer	 <p>3-Position Selector Switch without Lens Illuminated Maintained</p> <p>● 52SA7□ □N</p> <table border="0"> <tr><td>B ①</td><td>D</td><td>24V Full Voltage</td></tr> <tr><td>C ①</td><td>G</td><td>120V Full Voltage Transformer</td></tr> <tr><td>H</td><td></td><td>240V Transformer</td></tr> </table> <p>① Cam code</p>	B ①	D	24V Full Voltage	C ①	G	120V Full Voltage Transformer	H		240V Transformer	 <p>Contact Blocks For All Operators</p> <table border="0"> <tr><td>52BAK</td><td>1 NO</td></tr> <tr><td>52BAJ</td><td>1 NC</td></tr> <tr><td>52BJK</td><td>1 NO + 1 NC</td></tr> <tr><td>52BAH</td><td>1 NO Early Make</td></tr> <tr><td>52BAE</td><td>1 NC Late Break</td></tr> <tr><td>52BAU</td><td>1 NC Extra Late Break</td></tr> <tr><td>52BAR</td><td>1 NO + 1 NC ②</td></tr> </table> <p>① 52BAR ② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	52BAK	1 NO	52BAJ	1 NC	52BJK	1 NO + 1 NC	52BAH	1 NO Early Make	52BAE	1 NC Late Break	52BAU	1 NC Extra Late Break	52BAR	1 NO + 1 NC ②	 <p>Lens Kit (Knob plus Insert) For Illuminated Selector Switches</p> <table border="0"> <tr><td>●</td><td>52RA6P2</td></tr> <tr><td>●</td><td>52RA6P3</td></tr> <tr><td>●</td><td>52RA6P5</td></tr> <tr><td>AMB</td><td>52RA6P9</td></tr> <tr><td>CL</td><td>52RA6PA</td></tr> <tr><td>WH</td><td>52RA6PB</td></tr> </table>	●	52RA6P2	●	52RA6P3	●	52RA6P5	AMB	52RA6P9	CL	52RA6PA	WH	52RA6PB																																																																																																																																																																																							
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A Selector Operators — Non-illuminated

Cat. No. 52SA2, 52SB2, 52SX2, 52SW2 and 52SC6

For Contact and Cam Selection for Non-Illuminated Selector and Key Operators, see Page 1-20

B Selector Operators — Illuminated

Cat. No. 52SA7

For Contact and Cam Selection for Illuminated Selector Operators, see Page 1-20

Installation Instructions

Units are assembled as shown.

1. Position and press in color insert if required.
2. Assemble oil rings.
3. Mount unit on panel as shown in the illustration.
4. Position trim ring or legend plate (trim ring is discarded when legend plate is used).^①
5. Position index locking ring on unit as shown in illustration.^②
6. Assemble and tighten lock nut to 15 ft. lbs.

① Trim ring not used on black 4X devices.

② Locking ring not needed with plastic legend plates.

Notes for BlackMax 4X devices:

- The trim ring is not needed or supplied.
- Only use the index locking ring when using a metal nameplate. Discard when not using a name plate or when using a plastic nameplate.
- Use locknut wrench, **52MAWB**.

IMPORTANT

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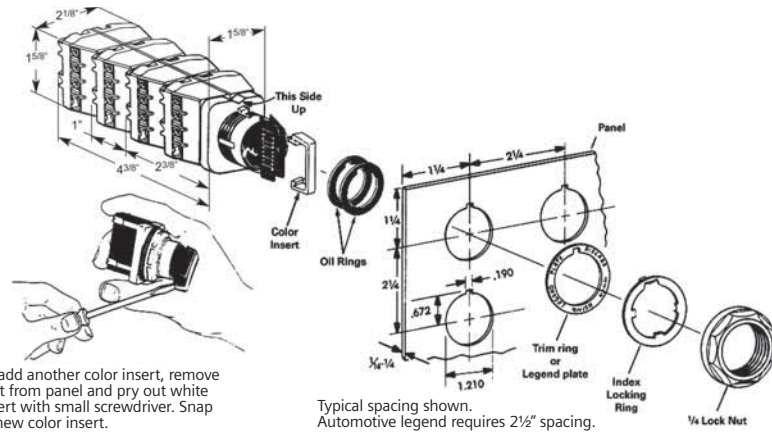


⚠ WARNING

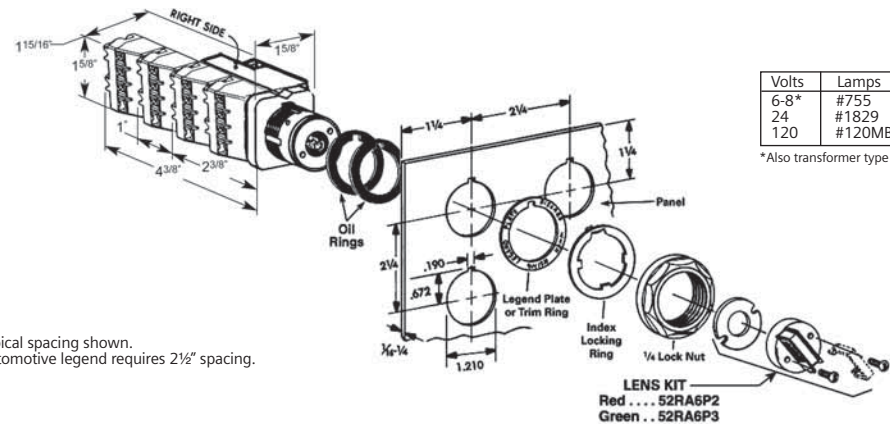
Hazardous voltage.
Can cause death, serious personal injury, or property damage.

To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.

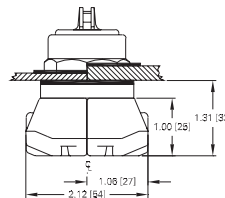
A Selector Operators — Non-illuminated



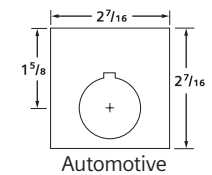
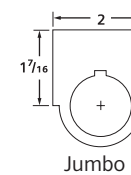
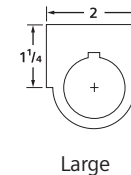
B Selector Operators — Illuminated






Selector switches and keyed selector switches illuminated and non-illuminated



Legend Plates



Siemens Selector Switches — 3-Position

Complete Units	Components Operators Only	Contact Blocks	Operator Specific Accessories
 <p>3-Position Key Selector Switch Maintained</p> <ul style="list-style-type: none"> ● 52SC6CEA1 1 NO + 1 NC ● 52SC6CEJ2K1 1 NO + 2 NC ● 52SC6CEA2 2 NO + 2 NC 	 <p>3-Position Selector Switch Maintained</p> <ul style="list-style-type: none"> ● 52SC6 <input type="checkbox"/> <input type="checkbox"/> B⓪ E All Key Removal C⓪ F Left Key Removal D⓪ G Right Key Removal E⓪ H Center Key Removal G⓪ J Left and Right Key Removal K Left and Center Key Removal M Right and Center Key Removal <p>① Cam Code</p>		
<p>Spring Return From Right</p> <ul style="list-style-type: none"> ● 52SC6CZA1 1 NO + 1 NC ● 52SC6GZJ2K1 1 NO + 2 NC ● 52SC6CZA2 2 NO + 2 NC 	<p>Spring Return From Right</p> <ul style="list-style-type: none"> ● 52SC6 <input type="checkbox"/> <input type="checkbox"/> B⓪ U Center Key Removal C⓪ Z Left and Center Key Removal D⓪ E E⓪ G⓪ <p>① Cam Code</p>	 <p>Contact Blocks For All Operators</p> <ul style="list-style-type: none"> 52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Break 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ② <p>① 52BAR ② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	
<p>Spring Return From Left</p> <ul style="list-style-type: none"> ● 52SC6CVA1 1 NO + 1 NC ● 52SC6GVJ2K1 1 NO + 2 NC ● 52SC6CVA2 2 NO + 2 NC 	<p>Spring Return From Left</p> <ul style="list-style-type: none"> ● 52SC6 <input type="checkbox"/> <input type="checkbox"/> B⓪ T Center Key Removal C⓪ W Right Key Removal D⓪ Y Right and Center Key Removal E⓪ G⓪ <p>① Cam Code</p>		
<p>Spring Return From Right and Left</p> <ul style="list-style-type: none"> ● 52SC6CVA1 1 NO + 1 NC ● 52SC6GVJ2K1 1 NO + 2 NC ● 52SC6CVA2 2 NO + 2 NC 	<p>Spring Return From Right and Left</p> <ul style="list-style-type: none"> ● 52SC6 <input type="checkbox"/> <input type="checkbox"/> B⓪ V Center Key Removal C⓪ D⓪ E⓪ G⓪ <p>① Cam Code</p>		

Selector Operators — Non-illuminated

Cat. No. 52SC6

For Contact and Cam Selection for Non-Illuminated Selector and Key Operators, see Page 1-20.

Installation Instructions

Units are assembled as shown.

1. Position and press in color insert if required.
2. Assemble oil rings.
3. Mount unit on panel as shown in the illustration.
4. Position trim ring or legend plate (trim ring is discarded when legend plate is used).^①
5. Position index locking ring on unit as shown in illustration.^②
6. Assemble and tighten lock nut to 15 ft. lbs.

① Trim ring not used on black 4X devices.

② Locking ring not needed with plastic legend plates

Notes for BlackMax 4X devices:

- The trim ring is not needed or supplied.
- Only use the index locking ring when using a metal nameplate. Discard when not using a name plate or when using a plastic nameplate.
- Use locknut wrench, **52MAWB**.

IMPORTANT

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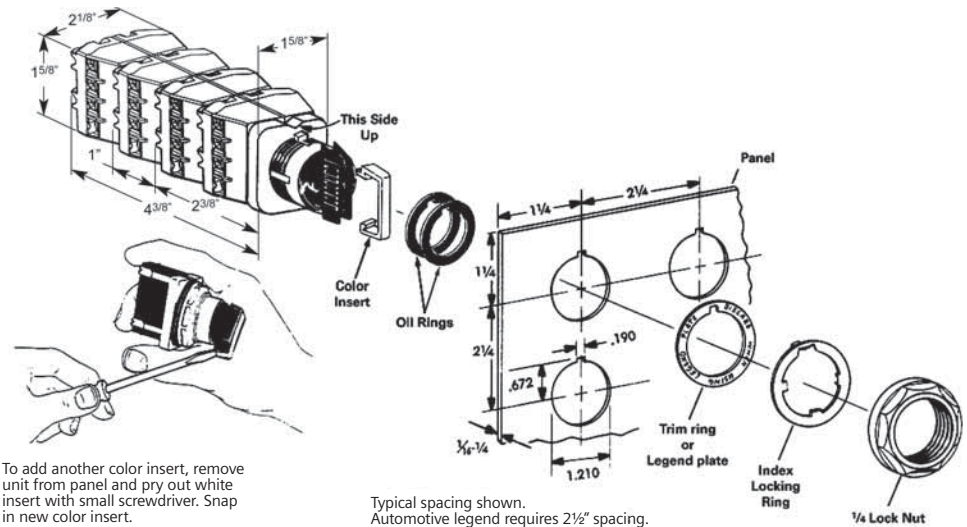
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⚠ WARNING

Hazardous voltage.
Can cause death, serious personal injury, or property damage.

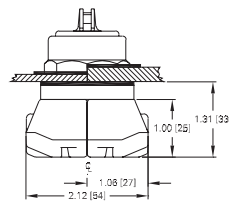
To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.



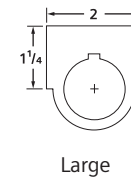
To add another color insert, remove unit from panel and pry out white insert with small screwdriver. Snap in new color insert.

Typical spacing shown.
Automotive legend requires 2 1/2" spacing.

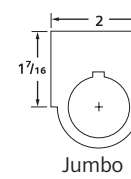
Selector switches and keyed selector switches illuminated and non-illuminated



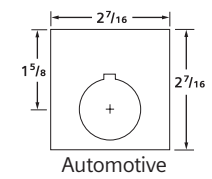
Legend Plates



Large






Jumbo



Automotive

Siemens Selector Switches — 4-Position and Specialty

Complete Units	Components Operators Only	Contact Blocks	Operator Specific Accessories
	 <p>4-Position Selector Switch Non-illuminated Maintained</p> <ul style="list-style-type: none"> ● 52S□2HAB Chrome Short Lever A Chrome Long Lever B Black Max Short Lever X Black Max Long Lever W <hr/>  <p>Select/Push Operator Non-illuminated Maintained</p> <ul style="list-style-type: none"> ● 52SA□□ 1 ● 52SA□□ 2 <p>Flush 3 P ①</p> <p>Raised 4 Q ①</p> <p> R ①</p> <p> S ①</p> <p>① Cam code</p>	 <p>Contact Blocks For All Operators</p> <ul style="list-style-type: none"> 52BAK 1 NO 52BAJ 1 NC 52BJK 1 NO + 1 NC 52BAH 1 NO Early Make 52BAE 1 NC Late Make 52BAU 1 NC Extra Late Break 52BAR 1 NO + 1 NC ② <p>① 52BAR</p> <p>② Hermitically Sealed, UL Listed for Class 1, Division 2, .25A Max., 200V AC, 10 Watt .5A Max., 200V AC, 10 Watt</p>	

Selector Operators — Non-illuminated

Cat. No. 52SA2H, 52SB2H, 52SX2H, 52SW2H, 52SA3, 52SA4
For Contact and Cam Selection for Non-Illuminated Selector
and Key Operators, see Page 1-20.

Installation Instructions

Units are assembled as shown.

1. Position and press in color insert if required.
2. Assemble oil rings.
3. Mount unit on panel as shown in the illustration.
4. Position trim ring or legend plate (trim ring is discarded when legend plate is used).^①
5. Position index locking ring on unit as shown in illustration.^②
6. Assemble and tighten lock nut to 15 ft. lbs.

① Trim ring not used on black 4X devices.

② Locking ring not needed with plastic legend plates

Notes for BlackMax 4X devices:

- The trim ring is not needed or supplied.
- Only use the index locking ring when using a metal nameplate. Discard when not using a name plate or when using a plastic nameplate.
- Use locknut wrench, **52MAWB**.

IMPORTANT

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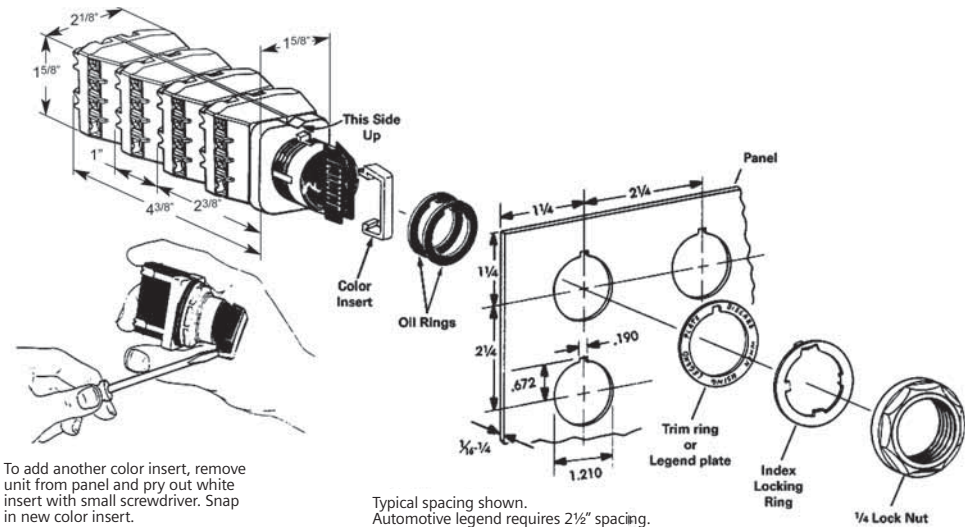
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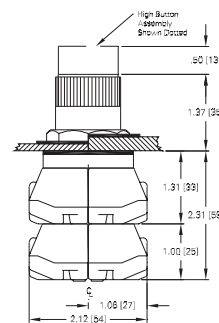
⚠ WARNING

Hazardous voltage.
Can cause death, serious personal injury, or property damage.

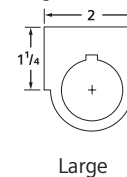
To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.



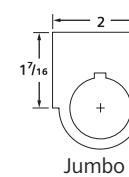
Selector Push Operator



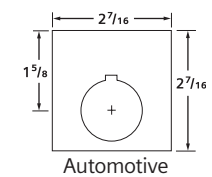
Legend Plates



Large





Jumbo



Automotive

Siemens Pilot Lights

Complete Units	Components Operators Only	Contact Blocks	Operator Specific Accessories
 <p>Pilot Lights</p> <ul style="list-style-type: none"> ● 52P□4□2 ● 52P□4□3 ● 52P□4□5 ● 52P□4□9 CL ● 52P□4□A WH ● 52P□4□B Less Lens 52P□4□N^① <p>Chrome A B 6V Full Voltage Chrome LED E C 12V Full Voltage Chrome Resistor C D 24V Full Voltage Black Max Y^② E 120V Full Voltage Black Mex LED X^③ G 120V Transformer^④ H 240V Transformer^④ T 277V Transformer^④ J 480V Transformer^④ K 600V Transformer^④ N 240V Resistor Type 120V</p> <p>^① Not available for LED. ^② Only for Incandescent Black Max Resistor Type. ^③ For Complete item ID for Black Max LED, add "Y" to the end of assembled number. Example: 52PX4B2Y. ^④ With 6V lamp.</p>			 <p>Pilot Light Lenses</p> <ul style="list-style-type: none"> ● 52RA4□2 ● 52RA4□3 ● 52RA4□5 ● 52RA4□9 AMB ● 52RA4□A CLR ● 52RA4□B WHT ● 52RA4□B <p style="text-align: right;">P Plastic G Glass</p>

Pilot Light

Cat. Nos. 52PA4, 52PC4, 52PE4, 52PX4, 52PY4

Installation Instructions

Units are assembled as shown.

1. Assemble oil rings.
2. Mount unit on panel as shown in illustration.
- 2a. When installing a pilot light in a NEMA 4 plastic or non-corrosive enclosure, a grounding ring and two oil rings must be installed. See Fig. 1A for placement. (Order kit #52AL109145 which includes 1 ground ring and 1 oil ring).
3. Position trim ring or legend plate (trim ring is discarded when legend plate is used). ①
4. Position index locking ring on unit as shown in illustration.
5. Assemble and tighten lock nut to 15 ft. lbs.

- ① Trim ring not used on black 4X devices.
 ② Locking ring not needed with plastic legend plates.
 ③ Trim ring not used on black 4X devices.

Notes for BlackMax 4X devices:

- The trim ring is not needed or supplied.
- Only use the index locking ring when using a metal nameplate. Discard when not using a name plate or when using a plastic nameplate.
- Use locknut wrench, **52MAWB**.

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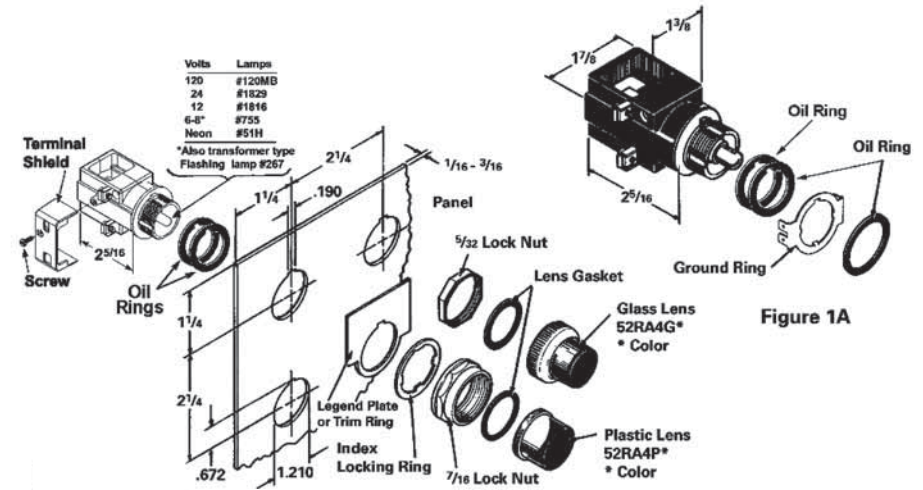
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WARNING

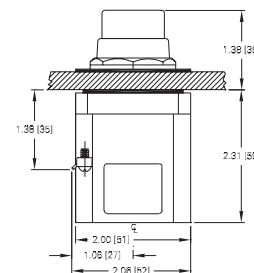
Hazardous voltage.
 Can cause death, serious personal injury, or property damage.

To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.

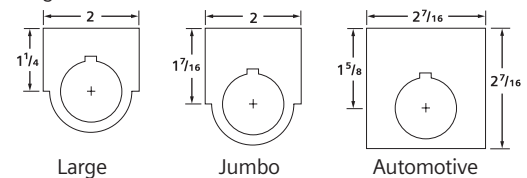


Typical spacing shown.
 Automotive legend requires 2 1/2" spacing.

Pilot light full voltage and transformer



Legend Plates



General Accessories



Lamps

Incandescent

52AABN	6V, Type 755
52AABNF	6V, Flashing, Type 267
52AACN	12V, Type 756
52AADN	24V, Type 757
52AAENC1	120V, Type 120MB
52AAPN	120V, Neon



Lamps

LED

	52A□2
	52A□3
	52A□4
	52A□5
	52A□B
WH	
	B 6V UC
	D 24V UC
	E 120V AC



Lamps

LED Cluster

	52A□27
	52A□37
	52A□47
	B 6V UC
	D 24V UC
	E 120V AC



Enclosures

		# of Holes
P30EMS	<input type="checkbox"/>	<input type="checkbox"/>
0 1		NEMA 12/13
0 2 D		NEMA 12/13 Extra Deep
0 3 4		NEMA 4/4X Stainless Steel
0 4 X		NEMA 4/4X Fiberglass
0 6		
0 9		
1 2		
1 6		

Legend Plates for Class 51 and Class 52 30mm Pilot Devices



52N□02	Blank
52N□02R	Blank (red)
52N□02B	Blank (black)
52N□18	Close
52N□10	Down
52N□16	Emerg Stop
52N□16R	Emerg Stop (red)
52N□33	Fast-Slow
52N□05	Forward
52N□38	For-Off-Rev
52N□31	For-Rev
52N□37	Hand-Off-Auto
52N□07	High
52N□30	High-Low
52N□44	High-Off-Low
52N□21	In
52N□13	Jog
52N□24	Jog-Forward
52N□25	Jog-Reverse
52N□08	Low
52N□20	Lower
52N□35	Man-Auto
52N□12	Off
52N□26	Off-On
52N□11	On
52N□40	On-Off-Auto
52N□17	Open
52N□34	Open-Close
52N□41	Open-Off-Close
52N□22	Pull to Start Out
52N□47	Push to Stop/Pull to Start
52N□19	Raise
52N□36	Raise-Lower
52N□14	Reset
52N□06	Reverse
52N□23	Run
52N□29	Run-Jog
52N□27	Safe-Run
52N□39	Slow-Off-Fast
52N□03	Start
52N□28	Start-Jog
52N□32	Start-Stop
52N□04	Stop
52N□04R	Stop (red)
52N□09	Up
52N□49	Up-Down
52N□42	Up-Off-Down

L Large Metal (1 7/16" x 2")
A Automotive (2 7/16" x 2 7/16")



Protective Boot (52AABA)



Push Button Guard (52AAGP)



Lens Guard (52AAGM)



Locknut (Push Button Replacement Front Ring 52AANP)



Locknut (Mushroom Head and Pilot Light Replacement Front Ring 52AANL)



Locknut (Selector Switch Replacement Front Ring 52AANS)



Padlock Attachment (52AALA)



Padlock Attachment (52AALS)



Padlock Attachment (52AALE)



Hole Plugs (52AAH6)



Lock Wrench (52MAWB)



Grounding Kit (52AL109145)

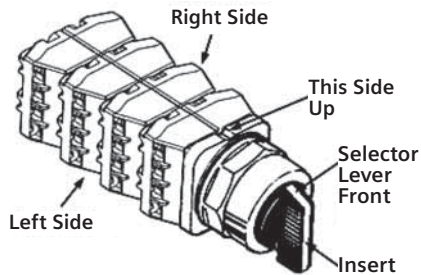
52AABA	Clear protective boot offering protection from ice and foreign substances from interfering with button operation
52AAGP	Push Button Guard (Prevents accidental operation of push buttons)
52AXGP	Non-Illuminated push buttons; Command/52
52AAGL	Non-Illuminated push buttons; Black Max
52AAGM	Lens Guard
52AXGL	Illuminated push buttons and push to test and pilot lights; Command/52
52AAGM	Illuminated push buttons and push to test and pilot lights; Black Max
52AXGM	Mushroom Head Push button Guard
52AANP	1 5/8" (41.3mm) mushroom head push button and push-pull operator guard; Command/52
52AAXP	1 5/8" (41.3mm) mushroom head push button and push-pull operator guard; Black Max
52AANL	Locknut (Push Button Replacement Front Ring)
52AXNL	Locknut for Command/52
52AANL	Locknut for Black Max
52AAXNL	Locknut (Mushroom Head and Pilot Light Replacement Front Ring)
52AANL	Locknut for Command/52
52AAXNL	Locknut for Black Max
52AANS	Locknut (Selector Switch)
52AANS	Locknut for Command/52
52AAXNS	Locknut for Black Max
52AALA	Padlock Attachments
52AALB	Flush push button operators
52AALS	Extended push button operators
52AALB	Push buttons, selector switches, and non-illuminated mushroom head operators
52AALB	Illuminated push-pull operators
52AAH6	Hole Plugs
52AAH6	Corrosion resistant
52ABH6	Steel, gray
52ABHS	Stainless steel
52MAWB	Locknut wrench (all devices)
52AL109145	Grounding kit (all devices)

Selector and Key Operators Contact and Cam Selection

- Under Selector Position, find the selector operation required (2, 3, or 4 positions).
- Select the contact operation required for each selector Lever Position (X indicates when contacts are closed).
- The Cam Letter column identifies the Cam of the selector operator.
- Contact block must be assembled in position shown for each circuit application.
- Cam D, E, or G may be ordered at the same price by changing the 6th character of the selector catalog number.
- C and G Cams on spring return selectors are limited to 4 contact blocks.

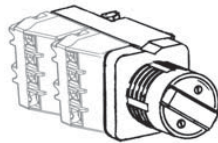
Example: Selector with **D** cam 52SA2**D**AB.

Non-Illuminated Selector and Key Operator Contact Block Mounting

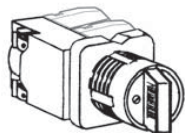


Illuminated Selector Contact Block Mounting By Cam Type

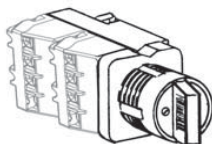
Cam A Operation
Contact Blocks mount on left side. Pilot light illumination assembly mounts on right side.



Cam B Operation
Contact Blocks mount on right side. Pilot light illumination assembly mounts on left side.



Cam C Operation
Contact Blocks mount on left side. Pilot light illumination assembly mounts on right side.



Note: Cam is identified by the 6th character of Cat. No.

Selector and Key Operators Viewed from Front

Selector Position	Lever Position X indicates contact closed		Cam Ltr	Contact Block	
	Left	Right		Cat No	Mounting
				Left	Right
2	X		A	52BAJ L or R	
		X	A	52BA L or R	
	Illuminated				
	X		A	52BA L	
		X	52BA L		
3	X			52BA	R
		X	B	52BA L	
	X	X		52BAJ L	
		X		52BA	R
	X		C ^①	52BAJ L or R	
		X		52BAK L or R	
	X		D	52BAJ L or R	
		X		52BAK L or R	
	X		E	52BAK L or R	
		X		52BAJ L or R	
	X		G	52BAJ L	
		X		52BAJ L or R	
	X		52BAK L or R		
Illuminated					
X		C	52BAJ L		
	X		52BAK L		
	X		52BAK	R	
X		C	52BAJ	R	
	X		52BAJ	R	
4	X			52BAK	R
		X	H	52BAJ L	
				52BAJ	R
			X	52BAK L	

① C-Cam on spring return selectors are limited to four contact blocks.

Push Operator

Selector Position	Lever Position X indicates contact closed		Cam Ltr	Contact Block	
	Left	Right		Cat No	Mounting
				Left	Right
	N	D			
2	X			52BAJ	R
	X	X	Q	52BAJ L	
		X		52BAK	R
			X	52BAK L	
	X		P	52BAJ L or R	
		X	X	52BAK L or R	
	X	X		52BAJ L	
	X		X	52BAJ R	
	X		52BAK R		
		X	52BAK L		
3	N	D			
	X	X		52BAJ L	
	X	X	X	52BAJ	R
		X		52BAK	R
			X	52BAK L	
		X	S		

D - Button Depressed
N - Button Not Depressed

SIEMENS



30.5mm & 22.5mm pilot DEVICES



SIEMENS